## MATERIAL SAFETY DATA SHEET

according to the Global Harmonized System

	Date of issue: 02/04/2013	Version 1.
SECTION 1.Identification		
Product identifier		
Product number	100132	
Product name	Barbituric acid for analysis EMSURE®	
Relevant identified uses of	the substance or mixture and uses advised against	
Identified uses	Reagent for analysis	
Details of the supplier of the	e safety data sheet	
Company	EMD Millipore Corporation   290 Concord Road, Billerica, MA 01821 United States of America   SDS Phone Support: +1-978-715-1335   General Inquiries: +1-978-751-4321   Monday to Friday, 9:00 AM to 4:00 PM Eastern Time (GMT-5)	,
	e-mail: mm_sds@merckgroup.com	
Emergency telephone	613-996-6666 CANUTEC (Canada) +1-703-527-3887 CHEMTREC (International) 24 Hours/day; 7 Days/week	

## SECTION 2. Hazards identification

## GHS-Labeling

Not a hazardous substance or mixture according to Regulation (EC) No 1272/2008.

## Other hazards

None known.

## SECTION 3. Composition/information on ingredients

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Formula	C₄H₄N₂O₃ (Hill)
CAS-No.	67-52-7
Molar mass	128.08 g/mol
Remarks	WHMIS hazardous composition: No ingredients are hazardous according to the CPR criteria.



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## **SECTION 4. First aid measures**

### Description of first-aid measures

*Inhalation* After inhalation: fresh air.

#### Skin contact

After skin contact: wash off with plenty of water. Remove contaminated clothing.

### Eye contact

After eye contact: rinse out with plenty of water. Immediately call in ophthalmologist.

Ingestion

After swallowing: make victim drink water (two glasses at most). Consult doctor if feeling unwell.

Never give anything by mouth to an unconscious person.

## Most important symptoms and effects, both acute and delayed

We have no description of any toxic symptoms.

### Indication of any immediate medical attention and special treatment needed

No information available.

## SECTION 5. Fire-fighting measures

### Extinguishing media

*Suitable extinguishing media* Water, Carbon dioxide (CO2), Foam, Dry powder

*Unsuitable extinguishing media* For this substance/mixture no limitations of extinguishing agents are given.

## Special hazards arising from the substance or mixture

Combustible material, Development of hazardous combustion gases or vapors possible in the event of fire. Fire may cause evolution of: nitrogen oxides

#### Advice for firefighters

*Special protective equipment for fire-fighters* In the event of fire, wear self-contained breathing apparatus.

#### Further information

Suppress (knock down) gases/vapors/mists with a water spray jet. Prevent fire extinguishing water from contaminating surface water or the ground water system.

#### **SECTION 6.** Accidental release measures

#### Personal precautions, protective equipment and emergency procedures

Advice for non-emergency personnel: Avoid generation of dusts; do not inhale dusts. Evacuate the danger area, observe emergency procedures, consult an expert.

Advice for emergency responders: Protective equipment see section 8.

#### **Environmental precautions**

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Do not empty into drains.

## Methods and materials for containment and cleaning up

Cover drains. Collect, bind, and pump off spills. Observe possible material restrictions (see sections 7 and 10). Take up dry. Dispose of properly. Clean up affected area. Avoid generation of dusts.

### SECTION 7. Handling and storage

#### Precautions for safe handling

Observe label precautions.

### Conditions for safe storage, including any incompatibilities

Tightly closed. Dry.

Store at +15°C to +25°C (+59°F to +77°F).

## SECTION 8. Exposure controls/personal protection

### Exposure limit(s)

Contains no substances with occupational exposure limit values.

#### Engineering measures

Technical measures and appropriate working operations should be given priority over the use of personal protective equipment.

## Individual protection measures

Protective clothing should be selected specifically for the workplace, depending on concentration and quantity of the hazardous substances handled. The chemical resistance of the protective equipment should be inquired at the respective supplier.

#### Hygiene measures

Change contaminated clothing. Wash hands after working with substance.

## *Eye/face protection* Safety glasses

#### Hand protection

Chemical-resistant, impervious gloves complying with an approved standard should be worn at all times when handling chemical products if a risk assessment indicates this is necessary.

#### Respiratory protection

required when dusts are generated.

Use a properly fitted, air-purifying or air-fed respirator complying with an approved standard if a risk assessment indicates this is necessary. Respirator selection must be based on known or anticipated exposure levels, the hazards of the product and the safe working limits of the selected respirator.

SECTION 9. Physica	l and chemic	al properties
Physical state		solid

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Color	white
Odor	weak

Product number Product name	100132 Barbituric acid for analysis EMSURE®	Version 1.0
Odor Threshold	No information available.	
рН	2 - 3 at 50 g/l 140 °F (60 °C)	
Melting point	250 - 252 °C (decomposition)	
Boiling point/boiling range	not applicable	
Flash point	No information available.	
Evaporation rate	No information available.	
Flammability (solid, gas)	No information available.	
Lower explosion limit	No information available.	
Upper explosion limit	No information available.	
Vapor pressure	No information available.	
Relative vapor density	No information available.	
Relative density	No information available.	
Water solubility	11.45 g/l at 77 °F (25 °C)	
Partition coefficient: n- octanol/water	log Pow:  -1.47 (experimental) Bioaccumulation is not expected (log Pow <1).	
Autoignition temperature	No information available.	
Decomposition temperature	> 482 °F (> 250 °C)	
Viscosity, dynamic	No information available.	
Explosive properties	No information available.	
Bulk density	ca.720 kg/m³	

## SECTION 10. Stability and reactivity

## Reactivity

The following applies in general to flammable organic substances and mixtures: in correspondingly fine distribution, when whirled up a dust explosion potential may generally be assumed.

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## Chemical stability

Sensitivity to light

## Possibility of hazardous reactions

Violent reactions possible with: bases

## Conditions to avoid

Strong heating (decomposition).

## Incompatible materials

no information available

## Hazardous decomposition products

in the event of fire: See section 5.

## SECTION 11. Toxicological information Information on toxicological effects

*Likely route of exposure* Eye contact, Skin contact, Ingestion *Acute oral toxicity* LD50 rat: > 5,000 mg/kg (RTECS)

*Specific target organ systemic toxicity - single exposure* The substance or mixture is not classified as specific target organ toxicant, single exposure.

Specific target organ systemic toxicity - repeated exposure

The substance or mixture is not classified as specific target organ toxicant, repeated exposure.

## Aspiration hazard

Regarding the available data the classification criteria are not fulfilled.

## Carcinogenicity

IARC	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as probable, possible or confirmed
	human carcinogen by IARC.
OSHA	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by OSHA.
NTP	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a known or anticipated carcinogen
	by NTP.
ACGIH	No ingredient of this product present at levels greater than or
	equal to 0.1% is identified as a carcinogen or potential
	carcinogen by ACGIH.
Further information	

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Hazardous properties cannot be excluded but are unlikely when the product is handled appropriately.

Handle in accordance with good industrial hygiene and safety practice.

## **SECTION 12. Ecological information**

## Ecotoxicity

No information available.

### Persistence and degradability

*Biodegradability* 58 %; 7 d OECD Test Guideline 302B

*Biochemical Oxygen Demand (BOD)* 20 mg/g (5 d)

## **Bioaccumulative potential**

Partition coefficient: n-octanol/water log Pow: -1.47 (experimental) Bioaccumulation is not expected (log Pow <1).

## Mobility in soil

No information available.

## Other adverse effects

Additional ecological information We have no quantitative data concerning the ecological effects of this product. Further information on ecology Discharge into the environment must be avoided.

## SECTION 13. Disposal considerations

The information presented only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations. Disposal should be in accordance with applicable regional, national and local laws and regulations.

## **SECTION 14. Transport information**

## Land transport (DOT)

Not classified as dangerous in the meaning of transport regulations.

## Air transport (IATA)

Not classified as dangerous in the meaning of transport regulations.

## Sea transport (IMDG)

Not classified as dangerous in the meaning of transport regulations.

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SECTION 15. Regulatory	information	
United States of Americ	a	
Canada		
WHMIS Classification	1	
	Not controlled under WHIMS (Canada).	
This product has beer	n classified according to the hazard criteria of the CPR and the M	SDS contains all of the

information required by the CPR.

## Notification status

TSCA:

On TSCA Inventory

DSL: All components of this product are on the Canadian DSL.

## **SECTION 16. Other information**

## Training advice

Provide adequate information, instruction and training for operators.

## Key or legend to abbreviations and acronyms used in the safety data sheet

Used abbreviations and acronyms can be looked up at www.wikipedia.org.

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The information contained herein is based on the present state of our knowledge. It characterizes the product with regard to appropriate safety precautions. It does not represent a warranty of any product properties and we assume no liability for any loss or injury which may result from the use of this information. Users should conduct their own investigations to determine the suitability of the information.

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